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1 30473/RDS/S61

**ROCK BIT WITH HARDFACING MATERIAL INCORPORATING
SPHERICAL CAST CARBIDE PARTICLES**

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Abstract of the Disclosure

25 An improved hardfacing for teeth and other surfaces of milled tooth rock bits ^{includes} comprises
steel in the range of from 20 to 50 percent by weight, and filler in the range of from 50 to 80
RDS percent by weight. The filler ^{includes} is ~~comprises~~ spherical cast tungsten carbide particles alone or in
10 a mixture of other tungsten carbide particles such as crushed cast spherical or crushed cemented
tungsten carbide, macrocrystalline tungsten carbide, or the like. The single crystal monotungsten
tungsten carbide particles have a particle size in the range of from 16 to 40 mesh and/or in the
range of from 80 to 200 mesh.

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